## **IN THE CLAIMS**

Current listing of claims.

- 1-31. (Canceled)
- 32. (Currently amended) A method of cleaning a wafer comprising: spinning a wafer having a frontside and a backside; exposing said frontside of said spinning wafer to an etchant or cleaning chemicals;

after exposing said wafer to said etchant or cleaning chemical, applying a liquid having a lower surface tension than water on said frontside of said spinning wafer a volume of liquid having a lower surface tension than water; and after applying the volume of liquid having a lower surface tension

than water, applying <u>liquid water</u>, which has been <u>DeIonized</u> (<u>DI</u>), onto <u>said</u> the frontside of said wafer <del>a volume of liquid water</del>, which has been <u>DeIonized</u> (<u>DI</u>),

wherein the volume of liquid having a lower surface tension than water and the volume of liquid DI water are uncombined and each applied separately to the frontside of the wafer.

- 33. (Canceled)
- 34. (Previously presented) The method of claim 32 further comprising applying megasonics energy to said backside of said wafer while exposing said frontside of said wafer to said cleaning chemicals or etchants.

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## 35. (Canceled)

- 36. (Previously presented) The method of claim 32 further comprising applying megasonics energy to said backside of said wafer while applying DI water to said frontside of said wafer.
- 37. (Currently amended) A method of rinsing chemicals or etchants from a wafer comprising:

rotating a wafer having a frontside and a backside;

dispensing a volume of cleaning chemicals or etchants onto said frontside of said wafer to form an etchant or chemical covered wafer;

immediately after dispensing said <del>volume of</del> cleaning chemicals or etchants onto said rotating wafer, applying a <del>volume of</del> vapor produced from a liquid having a lower surface tension than water onto said cleaning chemical or etchant covered wafer; and

immediately after applying said <del>volume of</del> vapor produced from a liquid having a lower surface tension than water, dispensing a <del>volume of</del> liquid DeIonized (DI) rinse water onto said frontside of said spinning wafer,

wherein the volume of vapor produced from a liquid having a lower surface tension than water and the volume of liquid DI water are uncombined and each applied separately to the frontside of the wafer.

38. (Previously presented) The method of claim 37 further comprising heating said DI rinse water prior to dispensing said DI rinse water on said frontside of said wafer.

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- 39. (Previously presented) The method of claim 38 wherein said DI rinse water is heated to a temperature between 60-70°C.
- 40. (Previously presented) The method of claim 37 further comprise applying megasonics energy to said backside of said wafer while dispensing said DI rinse water onto said frontside of said wafer.
- 41. (Previously presented) The method of claim 37 further comprising stopping said dispensing of said DI rinse water and spinning said wafer dry.
- 42. (Currently amended) A method of cleaning or etching a wafer comprising:

placing a wafer having a frontside and a backside on a support over a plate having a plurality of transducers formed thereon, wherein said wafer is horizontally supported and separated by a gap from said plate;

flowing a backside liquid in said gap between said backside of said wafer and said support;

dispensing chemicals or etchants onto said frontside of said wafer to form a chemical or etchant covered wafer while flowing said liquid in said gap;

after dispensing said chemicals or said etchant, dispensing a volume of liquid having a lower surface tension than water or a volume of vapor produced from a liquid having a lower surface tension than water onto said chemical or etchant covered wafer;

after applying said <del>volume of</del> vapor or <del>volume of</del> liquid, dispensing <del>a</del> <del>volume of</del> DeIonized (DI) rinse water onto said frontside of said spinning wafer,

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water or the <del>volume of</del> vapor produced from the liquid having a lower surface

tension than water, and the <del>volume of</del> DI water are <del>uncombined and</del> each applied

separately to the frontside of the wafer;

applying megasonics energy to said backside of said wafer from said

transducer while dispensing said volume of DI rinse water onto said frontside of

said wafer; and

after exposing said frontside of said spinning wafer to DI water,

blowing a fluid at the center of the frontside of said wafer while said wafer is

spinning with sufficient force to remove a DI water bulge formed at the center of the

wafer.

43. (Previously presented) The method of claim 42 further comprising

applying megasonics energy to said backside of said wafer from said transducers

while said dispensing of said chemical or said etchant.

44. (Previously presented) The method of claim 42 further comprising

heating said DI rinse water prior to applying said DI rinse water onto said frontside

of said wafer.

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45. (Previously presented) The method of claim 44 wherein said DI rinse

water is heated to a temperature between 60-70°C.

46. (Cancelled)

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- 47. (Previously presented) The method of claim 32, further comprising after exposing said frontside of said spinning wafer to DI water, blowing a fluid at the center of the frontside of said wafer while said wafer is spinning to remove a DI water bulge formed at the center of the wafer.
- 48. (Previously presented) The method of claim 37, further comprising after exposing said frontside of said spinning wafer to DI water, blowing a gas at the center of the frontside of said wafer while said wafer is spinning with sufficient force to remove a DI water bulge formed at the center of the wafer.
- 49. (Previously presented) The method of claim 36, further comprising after exposing said frontside of said spinning wafer to DI water, blowing a gas at the center of the frontside of said wafer while said wafer is spinning with sufficient flow to remove a DI water bulge formed at the center of the wafer.
  - 50. (Cancelled)
- 51. (Previously presented) The method of claim 32, wherein the liquid having a lower surface tension than water comprises isopropyl alcohol (IPA).
- 52. (Previously presented) The method of claim 37, wherein the vapor produced from a liquid having a lower surface tension than water comprises isopropyl alcohol (IPA).
- 53. (Previously presented) The method of claim 42, wherein the liquid having a lower surface tension than water comprises isopropyl alcohol (IPA); and

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wherein the vapor produced from a liquid having a lower surface tension than water comprises isopropyl alcohol (IPA).

54. (Previously presented) The method of claim 42, wherein the fluid, which is blown onto the center of the wafer to remove a DI water bulge formed at the center of the wafer comprises liquid isopropyl alcohol (IPA).

55. (Previously presented) The method of claim 42, wherein the fluid, which is blown onto the center of the wafer to remove a DI water bulge formed at the center of the wafer comprises a gas selected from the group consisting of isopropyl alcohol (IPA) vapor, nitrogen gas, helium gas, argon gas, and any combination thereof.

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